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APPLICATION NO).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/520,687		03/07/2000	John Dung-Quang Ly	14013-33US	9101
27728	7590	09/13/2004		EXAMINER	
LAW OF	FICES O	F IMAM	WON, MICHAEL YOUNG		
111 N. MA	ARKET ST	REET, SUITE 1010			· · · · · · · · · · · · · · · · · · ·
SAN JOSE, CA 95113				ART UNIT	PAPER NUMBER
•				2155 DATE MAILED: 09/13/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/520,687	LY, JOHN DUNG-QUANG				
	Office Action Summary	Examiner	Art Unit				
		Michael Y Won	2155				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)[Responsive to communication(s) filed on 13 Ju	<u>ıly 2004</u> .					
2a)	This action is FINAL . 2b)⊠ This	action is non-final.					
3)[Since this application is in condition for allower	nce except for formal matters, pro	secution as to the merits is				
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition	on of Claims						
4) Claim(s) 1-6 and 8-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 and 8-26 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice 3) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 7/13/2004.	4) Interview Summary (Paper No(s)/Mail Dai 5) Notice of Informal Pa 6) Other:					

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DETAILED ACTION

- 1. Claims 1, 8, 12, 24, and 25 have been amended and claims 1-26 have been examined.
- 2. Claims 1-26 are pending with this action.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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3. Claims 1-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Kodimer et al. (US 6003078A).

INDEPENDENT:

As per claim 1, Kodimer teaches of a network device assembly (see Fig.2) employed in a communication system (see Fig.1 and col.2, lines 17-19) comprising: a plurality of network devices (see Fig.1) capable of communicating network information (see abstract), through a packet switching network (see col.2, lines 2-5), to a technical support center (see col.1, lines 56-57: "service organization" and col.2, lines 2-5) operated by technical support staff (see col.13, lines 26-28: "network administrator"), said plurality of network devices coupled to said packet switching network through an interface line (see Fig.1 and col.3, lines 8-11), each of the plurality of network devices including one or more hardware subsystems and one or more software subsystems and for monitoring the status of the hardware and software subsystems (implicit) included therein and when a problem occurs either with respect to one or more of the hardware and software subsystems of a particular one of the plurality of the network devices, the particular network device sends a first message to the technical support center notifying the technical support center of the problem (see abstract and col.1, line 63 to col.2, line 5) without interruption to the operation of the network device [implicit: According to the reference, Kodimer teaches that the network device, "NIB" is a network interface board which comprises it's own processor, memory, and instruction sets (see col.4, lines 23-40), for the purpose of communicating with devices and making responsive decisions

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(see col.4, lines 11-22), therefore, NIB performs it's operational functionality when the device that the NIB is monitoring triggers an event, thus inherently uninterrupted. The problem of the subsystems does not affect the operation of the network device, but rather affects the network device to respond], said network device assembly including a computer register for indicating the status of all of the hardware and software subsystems immediately before the problem occurs (see col.12, line 52-col.13, line 2).

As per claim 12, Kodimer teaches a network device (see Fig.2) for use in communication with a technical support center (see col.1, lines 56-57: "service organization" and col.2, lines 2-5) operated by a technical support staff (see col.13, lines 26-28: "network administrator"), the technical support center being in communication with the network device (see Fig.1) through a packet switching network (see col.2, lines 17-19 and col.3, line 65 to col.4, line 2), comprising: an interface line coupling said network device to the packet switching network (see Fig.1 and col.3, lines 8-11); one or more hardware subsystems (see Fig.4); one or more software subsystems (inherency; see col.1, lines 28-32; and col.12, lines 10-12); means for monitoring the status of the hardware and software subsystems and said interface line (implicit: see col.4, lines 53-58) so that when a problem occurs with respect to one or more of the hardware or the software subsystems or the interface line, the network device transmits a first message to the technical support center to notify the technical support center of the problem (see abstract and col.1, line 63 to col.2, line 5) without interruption to the operation of the network device (see claim 1 rejection above); and a computer register

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for indicating the status of all of the hardware and software subsystems immediately before the problem occurs (see col.12, line 52-col.13, line 2).

As per claims 24 and 25, Kodimer teaches a method and a computer readable medium having stored therein computer readable program code comprising instructions (see Fig.3 and col.4, line 59), for detecting a problem in a network device (see abstract; Fig.19; and col.12, lines 34-36) comprising: during the operation of the network device (see abstract), the network device communicating network information through a packet switching network to a technical support center (see col.1, lines 56-57: "service organization" and col.2, lines 2-5) being operated by a technical support staff (see col.13, lines 26-28: "network administrator"), the network device being coupled to the packet switching network through an interface line (see col.3, lines 8-11), the network device including one or more hardware subsystems (see Fig.4) and one or more software subsystems (see Fig.1); monitoring the status of the hardware and software subsystems (inherency; see col.1, lines 28-32; and col.12, lines 10-12) and the interface line (implicit: see col.4, lines 53-58); detecting the occurrence of a problem associated with one or more of the hardware or software subsystems or the interface line (see abstract; Fig.19; and col.12, lines 34-36); sending a first message to the technical support center for notification of the problem so that the technical support staff is able to diagnose the problem without interruption to the operation of the network device (see abstract and col.1, line 63 to col.2, line 5 and claim 1 rejection above); and

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indicating the status of all of the hardware and software subsystems immediately before the problem occurs (see col.12, line 52-col.13, line 2).

DEPENDENT:

As per claims 2 and 14, Kodimer further teaches wherein the interface line is an Internet line (see col.1, lines 54-58) and the first message is in the form of an email message (see col.13, lines 26-28).

As per claims 3 and 15, Kodimer further teaches wherein the first message is in the form of a fax transmission (see col.1, lines 16-19).

As per claims 4 and 16, Kodimer further teaches wherein the first message is in the form of a page (see Fig.16).

As per claim 5, Kodimer further teaches including a processor for executing embedded software for monitoring the status of the hardware and software subsystems (see Fig.2, #22).

As per claims 6 and 17, Kodimer further teaches wherein the packet switching network is the Internet (see col.1, lines 54-58).

As per claim 8, Kodimer further teaches wherein the computer register includes error messages (see col.1, line 15) for identifying a particular hardware or software subsystem failure (see Fig.19 and col.12, lines 34-40).

As per claims 9 and 19, Kodimer further teaches wherein each of the plurality of network devices includes a remote diagnostic embedded process subsystem (see Fig.17), a hardware health status monitor subsystem and a software health status

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monitor subsystem, the remote diagnostic embedded process subsystem for communicating with the hardware health status monitor subsystem and the software health status monitor subsystem and for collecting status information provided by the software health status monitor subsystem and the hardware health status monitor subsystem and for detecting problems encountered by the hardware and software subsystems (see col.1, line 63 to col.2, line 5).

As per claims 10 and 22, Kodimer further teaches wherein the plurality of network devices is responsive to a second message generated by the technical support center for requesting further information regarding the problem (see Fig.18. steps S1801-S1806 and col.14, lines 3-5).

As per claims 11 and 18, Kodimer further teaches wherein at least one of the plurality of network devices is an access server (see abstract: "network peripheral device").

As per claim 13, Kodimer further teaches wherein the technical support staff is able to diagnose the problem without interruption to the operation of the network device (see Fig.16, #184; Fig.17; and col.10, lines 25-31).

As per claim 20, Kodimer further teaches wherein the remote diagnostic embedded process subsystem detects an error message (see col.1, line 15) prior to the transmission of the first message (see Fig.19 and col.12, lines 34-40).

As per claim 21, Kodimer further teaches wherein the remote diagnostic embedded process subsystem detects certain criteria (see col.1, lines 47-53) regarding

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the status of the network device prior to the transmission of the first message (see Fig.19 and col.12, lines 34-40).

As per claim 23, Kodimer further teaches wherein the network device is in communication with a user and further wherein the technical support center includes an email server (inherency) coupled to a command-formatter for communicating with a user interface, the email server for collecting the first message (see col.13, lines 26-28), the command-formatter for translating the first message into a format that is understandable to the user and the user interface for displaying information communicated between the network device and the user (see Fig.12; col.5, lines 12-22; col.6, line 61 to col.7, line 2; and col.10, lines 64-67).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kodimer et al. (US 6003078A) in view of Wiesenewsky (US 3925764 A).

As per claim 26, Kodimer further teaches wherein said plurality of network devices included memory (see Fig.2, #31 and #34) and of a remote diagnostic embedded

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process subsystem (see Fig.17), but Kodimer does not explicitly teach wherein the remote diagnostic embedded process subsystem is coupled to a memory monitoring subsystem for monitoring the memory of the network devices. Wiesenewsky teaches of a memory monitoring subsystem for monitoring the memory of the network devices (see). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to employ the teachings of Wiesenewsky within the system of Kodimer by enabling the memory monitoring subsystem for monitoring the memory of the network devices to couple the remote diagnostic embedded process subsystem within the communication system because Kodimer teaches that "condition" and "status information" is detected and obtained, respectively of the "network peripheral devise" (see abstract). Therefore, to one of ordinary skill in the art, a database or a repository constitutes a network peripheral device, and as such if a database or a repository was implemented the NIB would conform to monitoring the elements of such devices within the remote diagnostic embedded process subsystem by the network administrator.

Response to Arguments

5. After careful consideration of the arguments presented, clearly, Kodimer teaches of detecting a problem of the network device without interruption to the operation of the network device and indicating the status of all of the hardware and software subsystems immediately before the problem occurs (see col.12, line 52-col.13, line 2).

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The cited area is now presented to emphasize the teachings of Kodimer: Kodimer state in col.12, line 52-col.13, line 2:

"More particularly, in step S2001, network copier 11 detects a condition for which service is required. In this context, service might include, for example, technical service and maintenance or service from a sales organization, such as a delivery of a new part. The condition might consist of an operational problem, such as a motor failure, discovered during self-diagnostic testing or during normal operations. Alternatively, the condition might consist of an event triggered by exceeding a threshold quantity of usage, such as exceeding a threshold number of pages printed without performing maintenance. Finally, the condition might be triggered by a particular user input, such as pressing a button instructing copier 11 to place a purchase order request.

In step S2002, in response to the detected condition information specifically relating the detected condition together with copier configuration and/or status information is output from copier 11 to NEB 14 via XP interface 51" (emphasis underlined).

It is obvious to one of ordinary skill in the art that when a condition such as "exceeding a threshold number of pages printed without performing maintenance", the condition is output along with other information to the NEB, and the condition is triggered such that a **failure does not occur** with the network device (in the example by Kodimer: "network copier 11"). Furthermore, it would have been obvious to one of ordinary skill in the art, a result of the above condition, does not shut the network device down (copies can be still made). Such functionality is well known in the art of printer devices, wherein notification messages are displayed to users of a computer

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device, accessing a printer to perform printing, notifying that the ink level is low, but

does not prevent the user from completing the printing.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael Y Won whose telephone number is 703-605-

4241. The examiner can normally be reached on M-Th: 6AM-3PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hosain T Alam can be reached on 703-308-6662. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

Michael Y. Won

September 7, 2004

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HOSAIN ALAM SUPERVISORY PATENT EXAMINER

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